

TITLE: SUSPENSION FABRIC CABINET

BACKGROUND OF THE INVENTION

(a) Technical Field of the Invention

The present invention is related to an improved structure of a
5 suspension fabric cabinet, and more particularly, to one that allows easier
assembly and prevents from being deformed due to heavier load.

(b) Description of the Prior Art

Suspension KD fabric cabinets generally available in the market are
made in the construction as illustrated in FIG. 1 of the accompany drawings.
10 A fabric cabinet 1 is provided on its top a suspension ring 11, and multiple
fabrics 12 are sewn to the inner edges of the cabinet 1 at proper spacing to
form multiple cells for the storage of various types of object 2. However, if
the object 2 relates to a heavy stuff, the fabric 12 sags resulting in that the
cabinet 1 is deformed. Furthermore, as the spacing between any two cells is
15 fixed to prevent the placement of any taller object.

SUMMARY OF THE INVENTION

The primary purpose of the present invention is to provide an improved structure of a suspension fabric cabinet that is capable of accommodating heavier objects without being deformed.

5 To achieve the purpose, the present invention is comprised of a fabric cabinet and multiple locking strips and shelves. Wherein, a catch is each provided to the front and the rear of the locking strip. An L-notch is each provided to both sides of the shelf and made in relation to the catch. Both of the front and the rear edges of the shelf are respectively folded up and
10 overlapped to function as reinforcement ribs. Those locking strips are locking to the inner edges of the cabinet at a proper spacing between any two shelves, with the notch of the shelf hooked onto the catch of the locking strip to vertically form multiple cells to accommodate various types of objects. The reinforcement ribs help prevent the cabinet from being deformed due to
15 heavier load of the object, and form a retainer to prevent the object from escaping out of its cell.

 Those multiple locking strips are sewn to the inner edges of the cabinet while the reinforcement ribs form protrusions after the notches are provided on both sides of the front and the rear edges of the shelf, and then folded
20 upward before being sewn together to become the reinforcement ribs.

The foregoing object and summary provide only a brief introduction to the present invention. To fully appreciate these and other objects of the present invention as well as the invention itself, all of which will become apparent to those skilled in the art, the following detailed description of the
5 invention and the claims should be read in conjunction with the accompanying drawings. Throughout the specification and drawings identical reference numerals refer to identical or similar parts.

Many other advantages and features of the present invention will become manifest to those versed in the art upon making reference to the detailed
10 description and the accompanying sheets of drawings in which a preferred structural embodiment incorporating the principles of the present invention is shown by way of illustrative example.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a perspective view of a fabric cabinet of the prior art.

FIG. 2 is a perspective view of a preferred embodiment of the present invention.

5 FIG. 3 is an exploded view of the preferred embodiment of the present invention.

FIG. 4 is a schematic view showing the assembly of the shelves and the locking strips of the preferred embodiment of the present invention.

FIG. 5 is another schematic view showing the assembly of the shelves
10 and the locking strips of the preferred embodiment of the present invention.

FIG. 6 is a schematic view showing that the preferred embodiment of the present invention is in use.

FIG. 7 is a perspective view of another preferred embodiment of the present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

The following descriptions are of exemplary embodiments only, and are not intended to limit the scope, applicability or configuration of the invention in any way. Rather, the following description provides a convenient

5 illustration for implementing exemplary embodiments of the invention.

Various changes to the described embodiments may be made in the function and arrangement of the elements described without departing from the scope of the invention as set forth in the appended claims.

Referring to FIGS. 2 and 3, a preferred embodiment of the present
10 invention is essentially comprised of a fabric cabinet 3, multiple locking strips 4 and multiple shelves 5. Wherein, a ring 31 is provided on top of the cabinet 3 for suspension purpose. Each locking strip 4 is provided with a catch 41 and a lip 42 extending upward. Each shelf 5 is on both sides provided with multiple L-shaped notches 51 in relation to the catches 41, and
15 is on front and rear edge formed an extension after the cutting of the notch 51. The extension is folded upward and then folded in to overlap on the edge of the shelf 5 to form a reinforcement rib 52 (sewn on the edge in the preferred embodiment).

Those multiple locking strips 4 by pair are inserted into and sewn with
20 their lips 42 to the cabinet 3 and vertically arranged at a proper spacing

between any two abutted pairs.

Each shelf 5 with their notches 51 on both sides to respectively hooked to the catches 41 of the locking strips 4 so to accommodate the storage of objects once the cabinet 3 is suspended. The cabinet 3 is prevented from
5 deformation due to the reinforcement rib 52 each respectively provided on the front and the rear of each shelf 5.

As illustrated in FIGS. 4 and 5, a front and a rear catches 41 are provided to each locking strip 4 (with the number of the catch 41 may be increased as applicable). Both locking strips 4 are respectively sewn with
10 their lips 42 to the inner edges of the cabinet 3 in symmetry. The shelf 5 is then inserted into where between two locking strips 4 by having those notches 51 on both sides to engage into the catches 41, and by slightly pulling forward the shelf 5 for it to be locked into position. In this way, it is easier to assemble the shelf 5 and the shelf 5 is prevented from accidental falling once it
15 is secured in place.

Now referring to FIG. 6, the cabinet 3 is suspended by the ring 31 on the top. Different objects 2 are stored on those shelves 5. Each shelf 5 is locked in place with two locking strips 4 on both sides and is supported by two reinforcement ribs 52 on the front and the rear edge of the shelf 5. The
20 cabinet 3 is thus prevented from deformation due to the load of the object 2 for

the cabinet 3 to provide more practical use.

As illustrated in FIG. 7, any shelf 5 (or two shelves) may be removed at any time to accommodate a taller object for providing more practical functions for the cabinet 3.

5 The present invention by having multiple locking strips to hold multiple shelves in position to allow easy assembly and prevent cabinet from deformation due to the load of the object stored is practical and innovative. Therefore, this application is duly filed accordingly.

10 It will be understood that each of the elements described above, or two or more together may also find a useful application in other types of methods differing from the type described above.

15 While certain novel features of this invention have been shown and described and are pointed out in the annexed claim, it is not intended to be limited to the details above, since it will be understood that various omissions, modifications, substitutions and changes in the forms and details of the device illustrated and in its operation can be made by those skilled in the art without departing in any way from the spirit of the present invention.